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User's Guide

VFP15 FAMILY
15" FLAT
PANEL DISPLAY

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NOTICE

This manual is subject to change without notice and should not be construed to be a commitment in any form by Aydin Displays.

Aydin Displays reserves the right to make improvements to the product at any time. It is understood that the delivered product will be of the latest possible design and that it may not be exactly as stated herein. This manual may contain descriptions of functions not implemented at time of distribution, unless prior contractual arrangements have been made.

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FEDERAL COMMUNICATIONS COMMISSION REQUIREMENTS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Use the specified cables with the VFP15 display so as not to interfere with radio and television reception:
- Use the supplied power cable or equivalent to ensure FCC compliance
- Use the shielded video cable
- Series VFP15 products have been tested and found to comply with the limits for Class A, pursuant to part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in strict accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.
DO NOT OPEN THE CABINET. THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK, NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns the user that uninsulated voltage within the unit may be large enough to cause electric shock. Therefore, it is dangerous to touch any part inside the unit.

This symbol alerts the user that important literature about the operation and maintenance of this unit has been included. Read it carefully to avoid any problems.

PRODUCT SAFETY PRECAUTIONS

- The socket-outlet of power supply shall be installed near the equipment and shall be easily accessible
- Follow all warnings and instructions marked on the display
- Do not attempt to service this display yourself. There are no user replaceable parts inside and removing the display cover or back will expose you to dangerous voltage or other risks. Refer all servicing to qualified service personnel.
- Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings or install the display in a place where ventilation may be hindered.
- To protect from electrical shock, unplug the display's power supply from the wall outlet before relocating.
- Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.
- This display should be operated from the type of power source indicated on the display's rating label.
- Do not allow metal pieces or objects of any kind to fall into the display through the ventilation holes.
- The inside of the fluorescent tube located within the LCD monitor contains mercury. Please follow the bylaws or rules of your municipality to dispose of the tube properly.
- Do not use this display near water.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- When operating the LCD monitor with its AC 220-240V power supply, use a power cord that matches the power supply voltage of the AC outlet being used. The power supply cord you use must have been approved by and comply with the safety standards of your country.
- In UK, use a BS-approved power cord with molded plug having a black (5A) fuse installed for use with this monitor.
- Unplug this display's power supply from the wall outlet and refer servicing to qualified service personnel in the event that:
    - Power cord or plug is damaged or frayed.
    - Liquid is spilled into the display or the display is exposed to rain or water.
    - The display does not operate normally when the operating instructions are followed.
    - The display has been dropped or the cabinet damaged.
    - The display exhibits a distinct change in performance, indicating a need for service.

Thank you for purchasing the Aydin Displays VECTOR Display.

This carton contains the items listed below:

- VFP15 LCD Display
- Power cord
- 15-pin VGA HD15 to HD15 Video Cable
- Mounting hardware (if applicable)
- Product CD containing:
  - This User's Guide
  - Warranty Guide
  - Touch Accessories (if applicable)

Please check the carton and its content for damage that may have occurred during shipment.

Report any damage to the shipping agent immediately and do not operate the display if it appears to have been damaged. All warranty returns must use the original shipping carton and packaging materials to prevent shipping damage.

DISPLAY ADJUSTMENTS:

If you have any problems connecting, setting-up, or operating the display, please refer to the Troubleshooting section of this guide.

Connect one end of the video cable to the HD15 connector on the rear of the display and the other end to the HD15 on the computer.

If a Touch Screen option has been provided, connect the interface cable from the touch interface connector on the rear of the display to the proper RS232 Serial Controller.

Plug the power cord into the rear of the display and then plug the cord into an AC power source. Turn on the display. The Green ON LED should light. If the Amber NO SYNC LED is lit, refer to the Troubleshooting section.

CONTROLS:

On-Screen-Menu (OSM) Controls:

The OSM controls on the front of the monitor functions as follows:
To access the OSM menu, press any of the Adjust buttons (–, +) or Control buttons (< , >) or the "NEXT" (SELECT) button.

Control	Main Menu	Sub-Menu
EXIT	Exits the OSM controls.	Exits to the OSM controls main menu
-/+		Moves the bar left/right to increase or decrease the selected adjustment.
</>	Moves the highlighted area left/right to select desired sub-menus.	Moves the highlighted area to select one of the functions.
NEXT (SELECT)	Selects the highlighted submenu of the Main Menu.	Activate Auto Adjust Function or Activate Selected submenu.
RESET	Resets the adjustment function within the highlighted area to the factory setting.	Resets the highlighted adjustment function to the factory setting.

Note: When "RESET" is pressed, a warning window will appear allowing you to cancel the reset function.

BRIGHTNESS/CONTRAST CONTROLS:

BRIGHTNESS:
Adjusts the overall image and background screen brightness.

CONTRAST:
Adjusts the image brightness in relation to the background.

AUTO ADJUST CONTRAST:
Adjust the image displayed for non-standard video inputs.

AUTO ADJUST:
Automatically adjusts the Image Position, the Horizontal Size and Fine setting.

IMAGE CONTROLS:

LEFT/RIGHT:
Controls Horizontal Image Position within the display area on the LCD.

UP/DOWN:
Controls Vertical Image Position within the display area of the LCD.

H. SIZE:
Adjusts the horizontal size by increasing or decreasing this setting.

FINE:
Improves focus, clarity and image stability by increasing or decreasing this setting.

COLOR SETTING:

Five color presets select the desired color setting. Color temperature increases or decreases in each preset. (NATIVE color presets cannot be changed.)

NATIVE: Original color displayed by the LCD panel that is unadjustable.

TOOLS:

LANGUAGE: OSM control menus are available in seven languages.

OSM POSITION: You can choose where you would like the OSM control window to appear on your screen. Selecting OSM location allows you to manually adjust the position of the OSM control menu left, right, up or down.

OSM TURN OFF: The OSM control menu time out is selectable from the following preset choices: 10, 20, 30, 45, 60 and 120 seconds.

OSM LOCK OUT: This control completely locks out access to all OSM control functions without Brightness and Contrast. When attempting to activate OSM controls while in the Lock Out mode, a screen will appear indicating the OSM controls are locked out. To activate the OSM Lock Out function, simultaneously press and hold the NEXT and "+" buttons. To de-activate the OSM Lock Out function, simultaneously press and hold the NEXT and "+" buttons.

RESOLUTION NOTIFIER: The optimal resolution is 1024 x 768. If ON is selected, a message will appear on the screen after 30 seconds, notifying the operator that the resolution is not at 1024 x 768.

FACTORY PRESET: Selecting Factory Preset resets all OSM control settings back to the factory settings. The RESET button will need to be held down for several seconds to take effect. Individual settings can be reset highlighting the control to be reset and pressing the RESET button.

CLEANING AND CARE OF PROTECTIVE DISPLAY LENS:

- Always damp-dust the acrylic protective lens. For best results, mix a solution of one teaspoon of mild dishwashing liquid and one pint of water. Apply this solution with a spray bottle and wipe dry with a clean cotton cloth.
- Do-Not Use: Window cleaning fluids, scouring compounds, gritty cloths, leaded or ethyl gasoline, or strong solvents such as alcohol, acetone, carbon tetrachloride, etc.

TOUCH-SCREEN INFORMATION:

This information only applies to customers who have ordered a flat panel with a touch screen installed.

Due to the constantly changing world of PC operating systems, it is recommended by the manufacturer of touch screens to download the latest driver and user's manual to insure proper operation and system compatibility.

The Touch screen driver software provided on Product CD is a downloaded copy from the following listed companies. Aydin Displays Inc does not warrant any of the touch software. The driver software has been downloaded from the appropriate web sites and is only updated every January. Please refer to the appropriate web site for the latest updates. Prior to utilizing these drivers, please read the enclosed End-User License Agreement in the Read Me File.doc included on the Product CD. If you do not agree with any part off or all the agreements, contact the listed Software/Touch Screen Company.

The names of actual companies and products mentioned herein may be trademarks of their respective owners.

Resistive Touch	
AccuTouch™	Elo TouchSystems, a unit of Tyco Electronics
Infrared Touch	
CarrollTouch™	Elo TouchSystems, a unit of Tyco Electronics
Surface Acoustic Wave (SAW)	
IntelliTouch™	Elo TouchSystems, a unit of Tyco Electronics www.elotouch.com
Capacitive Touch	
ClearTek™	3M/Microtouch 3M Touch Systems was created by acquisitions of two established touch companies -- Dynapro™ and MicroTouch™ Systems
Near Field Imaging	
NFI™	3M/Microtouch www.3Mtouch.com

VECTOR 15 SPECIFICATIONS:

Visual Performance:

Display Type:	15.0" TFT Active-Matrix LCD	
Active Display Area:	304mm x 228mm (12.0in x 9.0in)	
Pixel Pitch:	0.30 mm	
Luminance:	250cd/m^2 (typ.)	
Contrast Ratio:	400:1 (typ.)	
Resolutions Supported:	720 x 400 :VGA text	
	640 x 480	@ 60-75 Hz
	800 X 600	@ 56 -75 Hz
	832 x 624	@ 75 Hz
	1024 x 768	@ 60 -75 Hz (Recommended resolution at 75 Hz for optimal performance)
Scanning Frequency:	Horizontal:	31.5 to 60 kHz
	Vertical:	50 to 75.1Hz
View Angle:	Left/Right:	75°/75°
	Up/Down:	55°/65°
User Controls:	On Screen Menu (OSM) Brightness, Contrast, Horizontal &Vertical Position, Width, Focus and Reset	

Environmental:

Operating Temperature:	5°C to 40°C
Storage Temperature:	-10°C to 60°C
Operating Humidity (Non-condensing):	10% to 80%
Storage Humidity: (Non-condensing):	10% to 85%
Operating Altitude:	0 to 10,000 ft
Storage Altitude:	0 to 40,000 ft
Shock	10G, 11ms, ½-sine pulse
Vibration	1G RMS, 20-500Hz

Power Supply:	Internal 100-120VAC/220-240VAC, 50/60Hz
Current Rating:	0.4A @ 100-120VAC, 0.2A @ 220-240VAC

TROUBLESHOOTING:

NO PICTURE:

- If the Amber NO SYNC LED is lit, verify that the signal cable is properly connected to the display and computer.
- The Green ON LED should be lit.

IMAGE PERSISTENCE:

- Image persistence is when a "ghost" of an image remains on the screen even after the monitor has been turned off. Unlike CRT monitor, LCD monitors' image persistence is not permanent. To alleviate image persistence, turn the monitor off for as long as an image was displayed. If an image was on the monitor for one hour and a "ghost" of that image remains, the monitor should be turned off for one hour to erase the image.

IMAGE IS UNSTABLE, UNFOCUSED OR SWIMMING IS APPARENT:

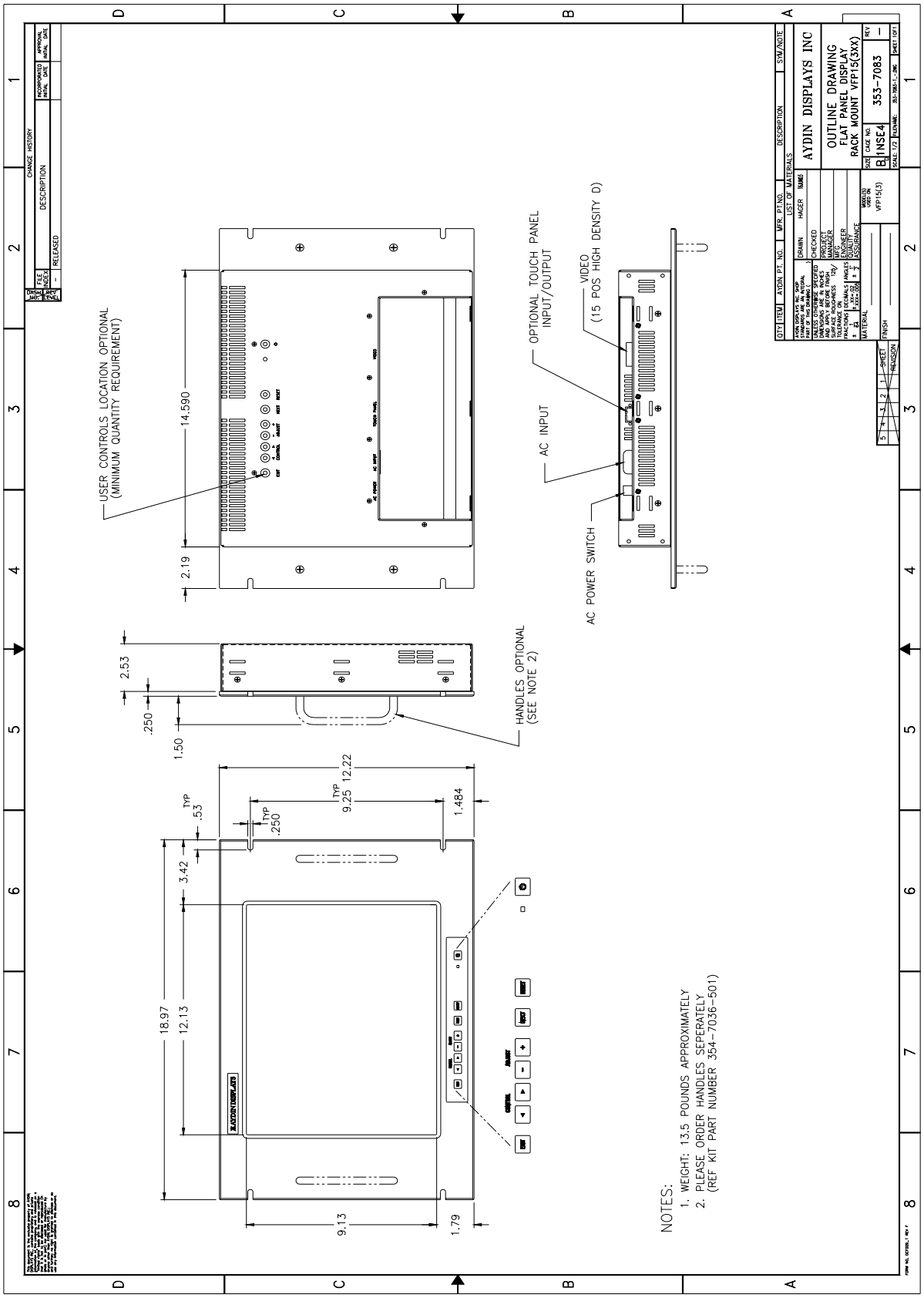
- Signal cable (video) should be completely attached to the computer and display.
- Use the OSM Image Adjust controls to focus and adjust display by increasing or decreasing the FINE setting. When the display mode is changed, the OSM Image Adjust settings may need to be re-adjusted.

DISPLAY IMAGE IS NOT SIZED PROPERLY:

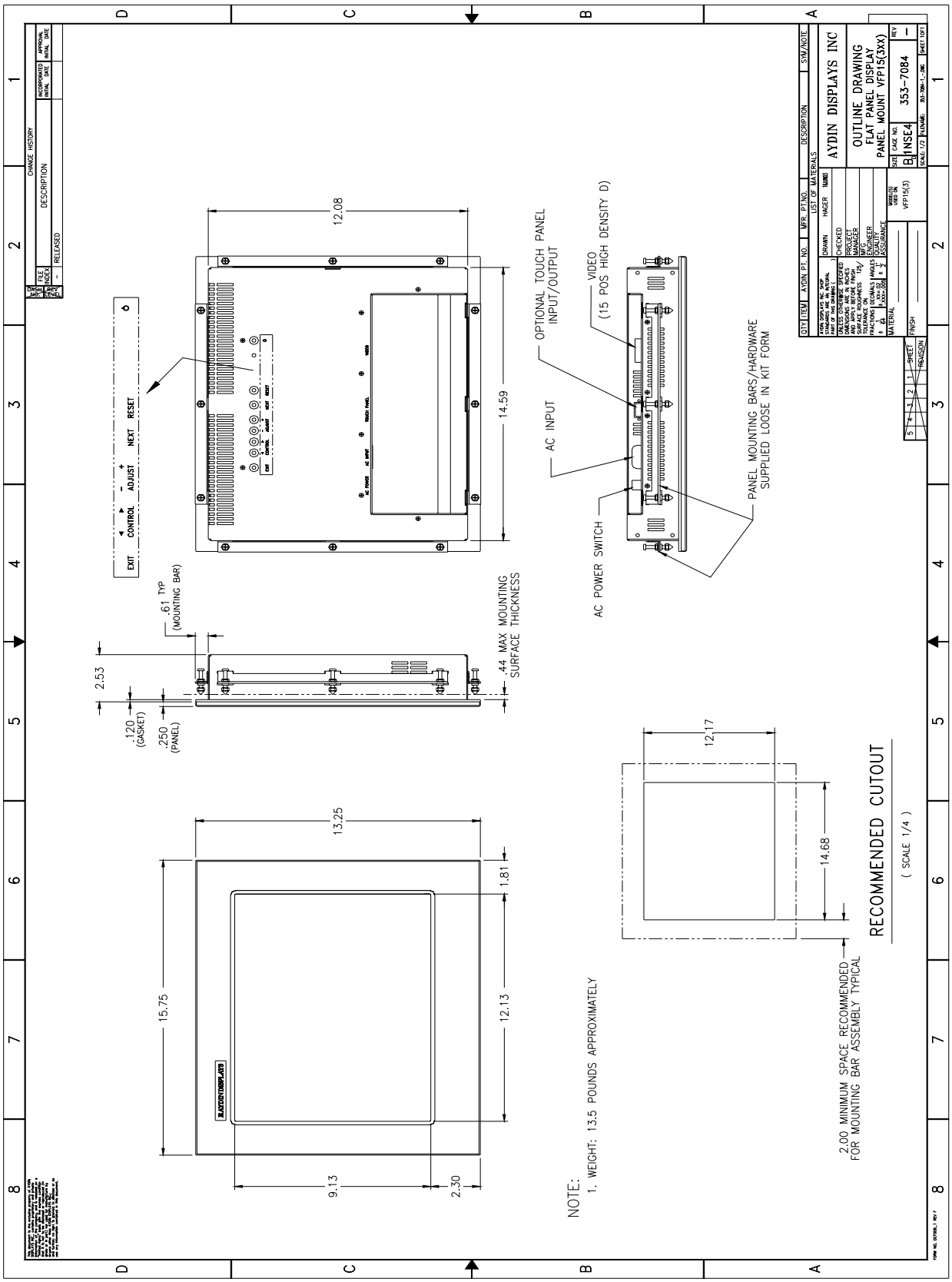
- Use the OSM Image Adjust controls to increase or decrease the H. SIZE setting.

CUSTOMER SERVICE CONTACT INFORMATION:

Ted Trombley
Phone: 610-404-5370
E-Mail: trombley@aydindisplays.com



VFP15 RACK MOUNT



VFP15 PANEL MOUNT